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STANDARD DHIA

*A plan for every size herd*

OWNER SAMPLER

WEIGH-A-DAY - A-MONTH

AGRICULTURAL RESEARCH SERVICE, U. S. DEPARTMENT OF AGRICULTURE

Dairy-Herd-Improvement Letter

ARS-44-125  
(Vol. 38, No. 11)

December 1962

### 2,216 A. I. SIRES SUMMARIZED IN 1962

Lactation records received by the Branch resulted in the selection of 2,216 artificial insemination sires for summarization in 1962. Table 1 presents the number of sires of the various breeds, as well as the average production of daughters, average production of daughters' herdmates, and average Predicted Average rating of sires. These totals include only those A. I. sires which had A. I. daughters with herdmate data. The totals include sires summarized for the first time in DHIA, as well as sires which were resummarized. Sires are summarized when five or more DHIA daughters are available, and are resummarized when 50 percent or more additional daughters are available.

The results of screening registered daughters of A. I. sires on the basis of their milk production superiority over herdmates are presented in Table 2. Daughters of 2,657 A. I. sires were screened in this process. The sires involved in this table included those which lacked A. I. daughters with herdmate data, in contrast to the total in Table 1.

Daughters meeting screening standards were listed on the sire summary records (DHIA-1202) of their sires. The information for each daughter included herd identification of the last lactation present, birthdate, sire, dam, number of records, and average milk and fat production of the cow and her herdmates.

The requirements for listing daughters of A. I. sires were (1) only registered daughters were eligible (2) only daughters with at least one record with herdmate data were considered

Issued January 1963

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(3) the daughters' milk production superiority over her herd-mates, weighted for number of lactations, must have exceeded a specified amount. The factors used to weight the number of records were as follows:

<u>Number of records</u>	<u>Factor</u>
1	1.00
2	1.38
3	1.58
4	1.70
5 or more	1.78

The minimum requirements for daughter superiority over herd-mates' milk production for listing were as follows:

<u>Breed</u>	<u>Standard (lb.)</u>
Ayrshire	2,490
Guernsey	2,250
Holstein	3,100
Jersey	2,350
Brown Swiss	2,990
Milking Shorthorn	2,480
Red Dane	2,000
Red Poll	1,875

The proportion of daughters listed in Table 2 indicates a minimum value, since a portion of the registered daughters lacked records with herd-mate data. The data in this table indicate that a higher proportion of daughters were listed than was expected.

The purpose of these listings is to identify cows of high genetic merit for production. Planned matings to produce future sire prospects are increasing in frequency, and these listings provide a source of information for locating cows to be used in such matings. Only milk production of the individual is considered in the screening process. Much attention also should be paid to the proof of the cow's sire. Daughters listed whose sires have outstanding A. I. proofs are reliable sources of future sire prospects.

#### ERRATUM:

October 1962 Letter. No entries should appear for California in the table on page 3 since this table referred only to herds with feed data. The totals in this table do not include California herds.

Table 1. Summary of Records of Sires in Artificial Insemination Service by Breed

Breed	AI Sires Number	Average Production						Herdsmates		Predicted Average	
		Daughters			Milk			Butterfat %	Pounds	Milk Pounds	Butterfat Pounds
		Milk Pounds	Butterfat %	Pounds	Milk Pounds	Butterfat %	Pounds				
Ayrshire-----	74	9,508	4.1	393	9,951	4.1	404			9,249	384
Guernsey-----	658	8,490	4.8	409	8,933	4.7	416			8,097	397
Holstein-----	976	12,638	3.7	464	12,620	3.7	464			12,176	445
Jersey-----	377	8,013	5.2	416	8,447	5.0	422			7,636	408
Brown Swiss---	107	10,649	4.1	437	10,804	4.0	434			10,595	440
Shorthorn-----	22	9,359	3.8	356	9,071	3.9	352			8,485	325
Red Dane-----	1	12,623	4.1	513	11,027	4.1	447			9,649	385
Red Poll-----	1	10,920	3.8	411	8,919	4.1	364			8,837	349
Total or											
Average-----	2,216	10,386	4.2	435	10,601	4.1	438				

Table 2. Daughters of AI Sires Included in Tabulations by Breed

Breed	Sire Number	Daughters		Registered Daughters Number	Daughters Listed Number	
		Number	Number		Number	Number
Ayrshire----	95	8,459		7,671		667
Guernsey----	814	52,451		38,077		3,645
Holstein----	1134	197,288		108,592		13,932
Jersey-----	450	30,804		21,412		1,881
Brown Swiss--	128	5,744		4,518		446
Shorthorn---	34	385		352		46
Red Dane----	1	5				
Red Poll----	1	10		10		5
Total-----	2657	295,146		180,632		20,622

